

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 10/661,670
Filing Date: September 15, 2003
Applicant: Yigal BEJERANO et al.
Group Art Unit: Unknown
Examiner: Unknown
Title: METHODS AND DEVICES FOR GROUPING CELLS
Attorney Docket: 29250-000998/US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

December 8, 2003

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION

The patents, publications and other information submitted for consideration by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

U.S. Filing Date

C. Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form-1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search Report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g))

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. See the attached foreign patent office communication from a counterpart foreign application:
2. English translations are provided for:
3. Other:

C. The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

Serial No.

Filing Date

Art Unit

V. THIS IDS IS BEING FILED UNDER

A. 37 C.F.R. § 1.97(b): (check only one box)

1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
2. within three months of the date of entry of the national stage as set forth in §1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
3. before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
4. before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. 37 C.F.R. § 1.97(c): (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
2. See the certification below. No fee is required.

C. 37 C.F.R. § 1.97(d):

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

- A. each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or
- B. no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).
- C. Some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 CFR 1.704(d)

The undersigned hereby states that:

- each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. 1.56(c) more than thirty days prior to the filing of this IDS.

VIII. PAYMENT OF FEES (check only one box)

- A. A check in the amount of \$180.00 is enclosed for the above-identified fee.
- B. Please charge Deposit Account No. 08-0750 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.

The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary

skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

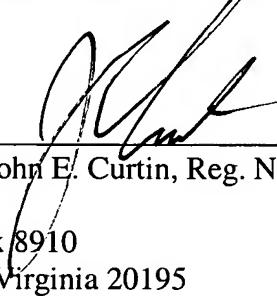
If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 08-0750.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 08-0750.

Respectfully submitted,

HARNESS, DICKEY, & PIERCE, P.L.C.

By


John E. Curtin, Reg. No. 37,602

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Enclosures: Form PTO-1449(s)
 Documents
 Foreign Search Report
 Fee
 Other:



FORM HDP-1449 (Based on Form PTO-1449)

**PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION**
(Use several sheets if necessary)

Sheet 1 of 7

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09/15/2003	Unknown

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		M. Mouly and M. B. Pautet. <i>The GSM System For Mobile Communication</i> . Telecom Publishing, France, June 1992.
		I. F. Akyildiz, J. McNair, J. S. M. Ho, H. Uzunalioglu, and W. Wang. Mobility management in next generation wireless systems. <i>IEEE Proceedings Journal</i> , 87(8):1347-1385, August 1999.
		3GPP, Boston, MA, USA and London, UK. <i>3GPP TS 23.012 V5.0.0, 3rd Generation Partnership Project, Technical Specification Group Core Network, Location Management Procedures (Release 5)</i> , March 2001.
		B. Jabbari, G. Colombo, A. Nakajima, and J. Kulkarni. Network issues for wireless communication. <i>IEEE Communications Magazine</i> , 33(1):88-99, January 1995.
		R. Steele, J. Whitehead, and W. C. Wong. Network issues for wireless communication. <i>IEEE Communications Magazine</i> , 33(1):80-87, January 1995.
		S. Okasaka, S. Onoe, S. Yasuda, and A. Maebara. A new location updating method for digital cellular systems. In <i>Proceeding of the IEEE 41st Vehicular Technology Conference, VTC'41</i> , pages 345-350, St. Louis, Missouri, May 1991.
		P.G. Escalle, V.C. Giner, and J. M. Oltra. Reducing location updates and paging costs in a pcs network. <i>IEEE Transaction on Wireless Communications</i> , 1(1):200-209, January 2002.
		M. Shirota, Y. Yoshida, and F. Kubota. Statistical paging area selection scheme (spas) for cellular mobile communication systems. In <i>Proceeding of the IEEE 44th Vehicular Technology Conference, VTC'44</i> , volume 1, pages 367-370, 1994.
		S. Mishra and O. K. Tonguz. Most recent interaction area and speed-based intelligent paging in pcs. In <i>Proceeding of the IEEE 47th Vehicular Technology Conference, VTC'47</i> , volume 2, pages 505-509, 1997.
		C. Rose and R. Yates. Minimizing the average cost of paging under delay constraints. <i>ACM-Baltzer Journal of Wireless Networks</i> , 1(2):211-219, July 1995.

Examiner:

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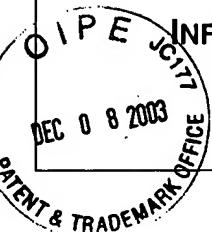
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Sheet 2 of 7

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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		Y. Bejerano and I. Cidon. Efficient location management based on moving location areas. In <i>Proceedings of IEEE INFOCOM'01</i> , pages 3-12, Anchorage, Alaska, USA, April 2001.
		Hai Xie, Sami Tabbane, and David J. Goodman. Dynamic location area management and performance analysis. In <i>Proceeding of the IEEE 43rd Vehicular Technology Conference, VTC'43</i> , pages 536-539, May 1993.
		Z. Lei and C. Rose. Wireless subscriber mobility management using adaptive individual location areas for pcs systems. In <i>IEEE International Conference on Communications, ICC'98</i> , volume 3, pages 1390-1394, 1998.
		Z. Lei, C. U. Saraydar, and N. B. Mandayam. Paging area optimization based on internal estimation in wireless personal communication networks. <i>ACM-Baltzer Journal of Mobile Networks and Applications</i> , 5(1):85-99, March 2000.
		J. Ming-Hui, H. Jorng-Tzong, and H-K. Wu. Personal paging area design based on mobiles moving behaviors. In <i>Proceedings of IEEE INFOCOM'01</i> , volume 1, pages 21-30, Anchorage, Alaska, USA, April 2001.
		S. Tabbane. An alternative strategy for location tracking. <i>IEEE Journal on Selected Areas in Communications, JSAC</i> , 13(5):880-892, June 1995.
		G. P. Pollini and I. Chih-Lin. A profile-based location strategy and its performance. <i>IEEE Journal on Selected Areas in Communications, JSAC</i> , 15(8):1415-1424, October 1997.
		S. K. Sen, A. Bhattacharya, and S. K. Das. A selective location update strategy for pcs users. <i>ACM-Baltzer Journal of Wireless Networks</i> , 5(5):313-326, October 1999.

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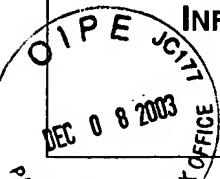
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Ref. Desig.	Examiner's Initials	
		A. Bhattacharya and S. K. Das. Lez-update: An information-theoretic approach to track mobile users in pcs networks. In <i>Proceedings ACM/IEEE MobiCom'99</i> , pages 1-12, Seattle, WA, August 1999.
		A. Bar-Noy, I. Kessler, and M. Sidi. Mobile users: To update or not update? <i>ACM-Baltzer Journal of Wireless Networks</i> , 1(2):175-185, July 1995.
		I. F. Akyildiz and J. S. M. Ho. Dynamic mobile user location update for wireless pcs networks. <i>ACM-Baltzer Journal of Wireless Networks</i> , 1(2):187-196, July 1995.
		I. F. Akyildiz, J. S. M. Ho and Y. Lin. Movement-based location update and selective paging for pcs networks. <i>IEEE/ACM Transactions on Networking, ToN</i> , 4(4):629-638, August 1996.
		I. F. Akyildiz and J. S. M. Ho. A mobile user location update and paging mechanism under delay constraints. <i>ACM-Baltzer Journal of Wireless Networks</i> , 1(4):413-425, December 1995.
		B. Liang and Z. J. Haas. Predictive distance-based mobility management for pcs networks. In <i>Proceedings of IEEE INFOCOM'01</i> , volume 3, pages 1377-1384, New York, NY, USA, March 1999.
		G. Wan and E. Lin. Cost reduction in location management using semi-realtime movement information. <i>ACM-Baltzer Journal of Wireless Networks</i> , 5(2):245-256, July 1999.
		Z. Lei and C. Rose. Probability criterion based location tracking approach for mobility management of personal communication systems. In <i>IEEE Global Telecommunications Conference, GLOBECOM '97</i> , volume 2, pages 977-981, 1997.

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		V. Wong and V. Leung. Location management for next-generation personal communications network. <i>IEEE Network</i> , pages 18-24, September/October 2000.
		R. Thomas, H. Gilbert and G. Mazziotto. Influence of the moving of the mobile stations on the performance of a radio mobile cellular network. In <i>Proceedings 3rd Nordic Seminar</i> , Copenhagen, Denmark, September 1998.
		E. Alonso, K. S. Meier-Hellstern, and G. P. Pollini. Influence of cell geometry on handover and registration rates in cellular and universal personal telecommunications networks. In <i>Proceedings 8th Int. Teletraffic Seminar</i> , pages 261-270, Genova, Italy, October 1992.
		M. Vudali. The location area design problem in cellular and personal communications systems. In <i>5th IEEE International Conference on Universal Personal Communications</i> , volume 2, pages 591-595, 1996.
		Chih-Lin I, Gregory P. Pollini, and Richard D. Gitlin. Pcs mobility management using the reverse virtual call setup algorithm. <i>IEEE/ACM Transactions on Networking, ToN</i> , 5(1):13-24, February 1997.
		C. U. Saraydar and C. Rose. Location area design using population and traffic data. In <i>Proceedings of Conference on Information and Science and Systems, CISS 1998</i> , pages 739-744, Princeton, NJ, USA, March 1998.
		P. R. L. Gondim. Genetic algorithm and the location area partition problem in cellular networks. In <i>Proceeding of the IEEE 46th Vehicular Technology Conference, VTC'96</i> , volume 3, pages 1835-1838, 1996.

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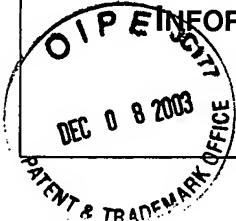
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		P. Demestichas, E. Tzifa, V. Demesticha, N. Georgantas, G. Kotsakis, M. Kilanioti, M. Striki, M. E. Anagnostou, and M. E. Theologou. Control of the location update and paging signaling load in cellular systems by means of planning tools. In <i>Proceeding of the IEEE 49th Vehicular Technology Conference, VTC'49</i> , volume 4, pages 2119-2123, 1999.
		I. Demirkol, C. Ersoy, M. U. Caglayan, and H. Delic. Location area planning in cellular networks using simulated annealing. In <i>Proceedings of IEEE INFOCOM'01</i> , Anchorage, Alaska, April 2001.
		J. Plehn. The design of location areas in a gsm-network. In <i>Proceeding of the IEEE 45th Vehicular Technology Conference, VTC'45</i> , volume 2, pages 871-875, 1995.
		I. G. Tollis. Optimal partitioning of cellular networks. In <i>IEEE International Conference on Communications, ICC'96</i> , volume 3, pages 1377-1381, 1996.
		M. Munguia-Macario, D. Munoz-Rodriguez, and C. Molina. Optimal adaptive location area design and inactive locations areas. In <i>Proceeding of the IEEE 47th Vehicular Technology Conference, VTC'47</i> , volume 1, pages 510-514, 1997.
		C. U. Saraydar, O. E. Kelly, and C. Rose. One-dimensional location area design. <i>IEEE Transactions on Vehicular Technology</i> , 49(5):1626-1632, September 2000.
		M. R. Garey and D. S. Johnson, <i>Computers and Intractability: A Guide to the Theory of NP-completeness</i> . Freeman Publication, New York, 1979.

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
		M. M. Deza and M. Laurent. <i>Geometry of cuts and metrics</i> . Springer-Verlag, Berlin-Heidelberg, 1997.
		V. V. Vazirani. <i>Approximation algorithms</i> . Springer-Verlag, 2001.
		V. V. Vazirani, N. Garg and M. Yannakakis. Approximate max-flow min-(multi) cut theorems and their applications. <i>SIAM J. Computing</i> , 25:235-251, 1996.
		S. Plotkin, P. Klein, and S. Rao. Excluded minors, network decomposition, and multicommodity flow. In <i>Proceeding of the 25th ACM symposium on Theory of Computing</i> , pages 682-690, 1993.
		E. Tardos and V. V. Vazirani. Improved bounds for the max-flow min-multicut for planar and $k_{r,r}$ -free graphs. <i>Information Processing Letters</i> , 47:77-80, 1993.
		B. Efron and R. J. Tibshirani. <i>An Introduction to the Bootstrap</i> . Chapman & Hall, New York, NY, first edition, 1993.
		Moses Charikar, Venkatesan Guruswami, and Anthony Wirth. Clustering with qualitative information. <i>IEEE Symposium on Foundations of Computer Science</i> , 2003.
		Erik D. Demaine and Nicole Immorlica. Correlation clustering with partial information. <i>Approximation Algorithms for Combinatorial Optimization Problems (APPROX)</i> , 2003.

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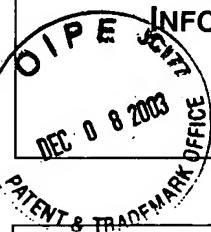
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Ref. Desig.	Examiner's Initials	
		Dotan Emmanuel and Amos Fiat. Correlation clustering – minimizing disagreements on arbitrary weighted graphs. <i>European Symposium on Algorithms</i> , 2003.
		Nikhil Bansal, Avrim Blum, and Shuchi Chawla. Correlation clustering, <i>IEEE Symposium on Foundations of Computer Science</i> , 2002.

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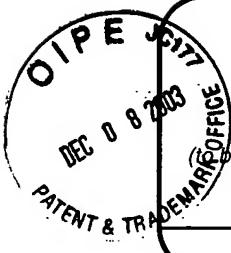
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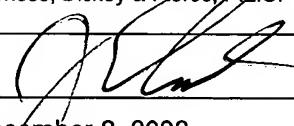


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First Named Inventor	Yigal BEJERANO
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	29250-000998/US

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Letter to the Official Draftsperson and Sheets of Formal Drawing(s)	<input type="checkbox"/> LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims)
<input type="checkbox"/> Amendment	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	PTO Form 1449
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Harness, Dickey & Pierce, P.C.	Attorney Name John E. Curtin	Reg. No. 37,602
Signature			
Date	December 8, 2003		